Notice of Allowability	Application No. Applicant(s)		
	09/520,164		
	Examiner	KURODA ET AL. Art Unit	T
	Pedro J. Cuevas	2834	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate com	with the correspondence addr in this application. If not includ	ed
2. The allowed claim(s) is/are 2 and 3.			
3. The drawings filed on are accepted by the Examine	ar .		
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d)	or (f).	
1. Certified copies of the priority documents have	been received.		
2. ☐ Certified copies of the priority documents have	been received in Applicat	tion No.	
3. Copies of the certified copies of the priority doc	cuments have been receiv	ed in this national stage applica	ron from the
International Bureau (PCT Rule 17.2(a)).		and riduorial stage applica	milliom the
* Certified copies not received:			N
5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to	a provisional application)	
(a) Light ranslation of the foreign language provisional a	polication has been receive	od	
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and	l/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t 7. A SUBSTITUTE OATH OR DECLARATION must be subministed in the subminister of the subminister.	the application. This in	REE-MONTH PERIOD IS NOT	EXTENDABLE
with (in the field) willow gives reason	on(s) why the oath or decid	aration is deficient.	OTICE OF
8. CORRECTED DRAWINGS must be submitted.			
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew (PTO-948) attached	
i) ☐ hereto or 2) ☐ to Paper No			
(b) ☑ including changes required by the proposed drawing of Examiner.			
(c) \square including changes required by the attached Examiner's	Amendment / Comment of	or in the Office action of Paper N	lo.
Identifying indicia such as the application number (see 37 CFR 1.8 of each sheet. The drawings should be filed as a separate paper v	M(-))		
9. DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT FOR TH	it of BIOLOGICAL MAT	EDIAL	
Attachment(s)			
 1⊠ Notice of References Cited (PTO-892) 3☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5☐ Information Disclosure Statements (PTO-1449), Paper No 7☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4∐ Interviev 6∏ Examine	of Informal Patent Application (P w Summary (PTO-413), Paper N er's Amendment/Comment er's Statement of Reasons for Al	o
U.S. Patent and Trademark Office PTO-37 (Rev. 04-01)	ce of Allowahility		

Notice of Allowability

Part of Paper No. 0403

Application/Control Number: 09/520,164

Art Unit: 2834

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 2 and 3 are allowed.
- 2. The following is an examiner's statement of reasons for allowance.

Katayose et al. clearly teaches the construction of an engine control apparatus comprising:

a brake booster;

pressure detectors;

a throttle-opening-state detector; and

an engine-operation enable/disable determining device.

Bader teach the use of a means for obtaining the amount of battery charge for the purpose of providing a method for automatically controlling a parallel hybrid drive, in which the power of an internal combustion engine is supplied in three different ways as a function of current driving parameters; in particular the power requirement, the vehicle speed and the battery charge state.

Harada teach the use of coolant and intake air temperature detectors on an apparatus for the purpose of controlling negative pressure for a brake booster in a diesel engine.

The prior art of record, taken alone or in combination, fails to teach the construction of an engine control system for a hybrid vehicle having an internal combustion engine and an electric motor as driving force sources, for permitting stopping and starting of said engine in accordance with predetermined drive conditions, comprising:

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a brake booster for receiving negative pressure supplied by an operation of said engine;

a pressure detector for detecting a pressure supplied to said brake booster; throttle-opening-state detector for detecting a throttle opening state; and engine-operation enable/disable determining device for determining whether or not to operate said engine when said engine is stopped, based on said throttle opening state detected by said throttle-opening-state detector and said pressure detected by said pressure detector,

wherein said engine-operation enable/disable determining device that:

permits said engine to operate when said throttle opening state is other than completely closed;

causes said engine to stop when said throttle opening state is completely closed and said pressure detected by said pressure detector is equal to or lower than a predetermined negative pressure which is equal to or lower than an atmospheric pressure; and

permits said engine to operate when said throttle opening state is

completely closed and said pressure detected by said pressure detector is closer to
the atmospheric pressure than the predetermined negative pressure, which is equal
to or lower than the atmospheric pressure.

3. Dependent claim 3 is considered allowable by it's dependence on allowed independent claim 2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas April 11, 2003 The state of the s